

**Listing of Claims:**

Claim 1 (currently amended) A radial engine including:

an engine block having a central aperture;

a drive shaft extending through said aperture;

a spaced pair of cam plates rotationally fixed with respect to each other, the plates being fixedly mounted on said shaft;

each cam plate including a planar face, the planar face of one cam plate opposing the planar face of the other cam plate;

the opposing faces each including a pair of spaced opposing walls defining a substantially "figure 8" shaped continuous loop, the walls on one said face being aligned with the walls on the opposing face;

at least one cylinder fixed with respect to said block and extending outwardly from said block;

a reciprocable piston slidably mounted within said cylinder;

a connecting rod fixedly connected at one end to said piston and having an opposing free end;

a slider bearing located on said free end of said connecting rod, said slider bearing engaging with a guide for guiding said slider bearing during reciprocation of said piston;  
and

a cam follower engaged with said walls of each cam plate, wherein reciprocation of said piston rotates said plates and said drive shaft; and

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wherein said guide is defined by a radially extending bore in said engine block and sidewalls of said bore laterally support said slider bearing during reciprocation of said piston.

**Claim 2 (cancelled)**

**Claim 3 (currently amended)** ~~A radial engine as claimed in claim 1 wherein A~~  
radial engine including:

an engine block having a central aperture;

a drive shaft extending through said aperture;

a spaced pair of cam plates rotationally fixed with respect to each other, the plates being fixedly mounted on said shaft;

each cam plate including a planar face, the planar face of one cam plate opposing the planar face of the other cam plate;

the opposing faces each including a pair of spaced opposing walls defining a substantially "figure 8" shaped continuous loop, the walls on one said face being aligned with the walls on the opposing face;

at least one cylinder fixed with respect to said block and extending outwardly from said block;

a reciprocable piston slidably mounted within said cylinder;

a connecting rod fixedly connected at one end to said piston and having an opposing free end;

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a slider bearing located on said free end of said connecting rod, said slider bearing engaging with a guide for guiding said slider bearing during reciprocation of said piston;  
and

a cam follower engaged with said walls of each cam plate, wherein reciprocation of said piston rotates said plates and said drive shaft; and wherein

said slider bearing includes a prismatic body.

**Claim 4 (previously amended)** A radial engine as claimed in claim 1 wherein said cam follower is located on said slider bearing.

**Claim 5 (previously amended)** A radial engine as claimed in claim 1 wherein said cam follower is a pin.

**Claim 6 (previously amended)** A radial engine as claimed in claim 1 wherein each said substantially "figure 8" shaped continuous loop is defined by a groove in each said plate and said cam follower projects into each said groove.

**Claim 7 (previously amended)** A radial engine as claimed in claim 1 further including a guide for translationally guiding said connecting rod.

**Claim 8 (currently amended)** ~~A radial engine as claimed in claim 7~~ A radial engine including:

an engine block having a central aperture;

a drive shaft extending through said aperture;

a spaced pair of cam plates rotationally fixed with respect to each other, the plates being fixedly mounted on said shaft;

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each cam plate including a planar face, the planar face of one cam plate opposing the planar face of the other cam plate;

the opposing faces each including a pair of spaced opposing walls defining a substantially "figure 8" shaped continuous loop, the walls on one said face being aligned with the walls on the opposing face;

at least one cylinder fixed with respect to said block and extending outwardly from said block;

a reciprocable piston slidably mounted within said cylinder;

a connecting rod fixedly connected at one end to said piston and having an opposing free end;

a slider bearing located on said free end of said connecting rod, said slider bearing engaging with a guide for guiding said slider bearing during reciprocation of said piston;

a cam follower engaged with said walls of each cam plate, wherein reciprocation of said piston rotates said plates and said drive shaft; and,

a guide for translationally guiding said connecting rod; and,

wherein said guide is defined by a complementary bore in said engine block and the sidewall of said bore laterally supports said connecting rod during reciprocation of said piston.

**Claim 9 (previously amended)** A radial engine as claimed in claim 8 wherein said sidewall includes a longitudinal slot through which said cam follower projects.

**Claim 10 (previously amended)** A radial engine as claimed in claim 1 wherein said cam follower includes a roller for rolling engagement with said walls.

**Claim 11 (cancelled)**

**Claim 12 (previously amended)** A radial engine as claimed in claim 1 wherein said engine includes a plurality of said cylinders.

**Claim 13 (previously amended)** A radial engine as claimed in claim 12 including an even number of said cylinders, regularly circumferentially spaced around the periphery of said engine block.

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